

STATE OF ILLINOIS)
) SS
COUNTY OF LAKE)

Agenda Item #

47

COUNTY BOARD, LAKE COUNTY, ILLINOIS
REGULAR SEPTEMBER, A.D., 2008 SESSION
SEPTEMBER 9, A.D., 2008

MADAM CHAIRMAN AND MEMBERS OF THE COUNTY BOARD:

A joint Resolution authorizing the Purchasing Agent to enter into a agreements with Brown Traffic Products Inc., Davenport, Iowa, in the estimated amount of \$124,094.00 and Traffic Control Corporation, Addison, Illinois, in the estimated amount of \$516,740.00 to upgrade approximately 204 Traffic Signal Controllers and integrate the controllers into the Lake County PASSAGE Intelligent Transportation System and designated as Section # 02-00268-06-TL.

We **RECOMMEND** adoption of this Resolution.

Respectfully submitted,

| | | |
|--|-----|-----|
| <u><i>Deanna O'Keefe</i></u> | Aye | Nay |
| Chairman | | |
| <u><i>David S.</i></u> | ✓ | |
| Vice-Chairman | | |
| <u><i>Michael A. Garrett</i></u> | ✓ | |
| <u><i>Terese Douglas</i></u> | ✓ | |
| <u><i>Susan L. Swenkhout</i></u> | ✓ | |
| _____ | | |
| Public Works and Transportation Committee | | |

| | | |
|---|-----|-----|
| <u><i>Deanna O'Keefe</i></u> | Aye | Nay |
| Chairman | X | |
| <u><i>Ann Flannery</i></u> | ✓ | |
| Vice-Chairman | | |
| <u><i>David S.</i></u> | ✓ | |
| <u><i>Sharon M. Fink</i></u> | X | |
| <u><i>Carol Calabrese</i></u> | ✓ | |
| <u><i>Deanna O'Keefe</i></u> | ✓ | |
| _____ | | |
| Financial and Administrative Committee | | |

RESOLUTION

WHEREAS, there is a need to upgrade approximately 204 existing Traffic Signal Controllers in order to communicate with the TMC; and

WHEREAS, this County Board of Lake County at its meeting of April 10, 2007, appropriated \$2,500,000.00 for I.T.S. field work; and

WHEREAS, the work includes upgrade of the controller firmware and integration into the Lake County PASSAGE Intelligent Transportation System; and

WHEREAS, the existing controllers are manufactured by two different vendors, Econolite and Eagle; and

WHEREAS, Brown Traffic Products Inc. and Traffic Control Corporation are the sole distributors authorized by the manufacturers to perform the firmware upgrades necessary for the project; and

WHEREAS, in accordance with Article 6, Section 102 of the Lake County Purchasing Ordinance, the Purchasing Agent consulted with an ad hoc review group and determined that this purchase is exempt from bidding on the basis of sole source.

NOW, THEREFORE, BE IT RESOLVED, by this County Board of Lake County, Illinois, that the Purchasing Agent is authorized to enter into a agreements with Brown Traffic Products Inc., Davenport, Iowa in the estimated amount of \$124,094.00 and Traffic Control Corporation, Addison, Il. in the estimated amount of \$516,740.00 to upgrade approximately 204 Traffic Signal Controllers and integrate the controllers into the Lake County PASSAGE Intelligent Transportation System and designated as Section 02-00268-06-TL.

Dated, at Waukegan, Lake County Illinois,
on this 9th day of September A.D., 2008.



Quote

Quote Number: Q008751

MERGING INNOVATION, TECHNOLOGY & SERVICE

736 Federal Street Suite 2312 | Davenport, IA 52803 | 1(563) 323-0009

To: Lake County Div. of Transportation
600 W. Winchester Rd.
Libertyville, IL 60048
USA

Date: 08/14/2008
Prepared By: Gary Meyer

Contact: Tony Khawaja
Phone: (847) 362-3950
Fax: (847) 362-5290
Email: ANKhawaja@co.lake.il.us

RFQ #:

Description: Controller Replacement/Upgrade (Lake County, IL)

| Part # | Description | Quantity | Price | Extended |
|-------------------|---|----------|------------|--------------|
| SIE-EPAC3868M52 | TS-2 TYPE 2 CONTROLLER WITH MULTI-MODE FIBER OPTIC COMM, NTCIP SOFTWARE (M52)- *Data Conversion Included* | 27 | \$3,775.00 | \$101,925.00 |
| SIE-AIA15122P401D | NTCIP M40 FIRMWARE | 27 | \$300.00 | \$8,100.00 |
| SIE-PIA04332P006 | FPGA U33 SCOOT (KANBAN)- *Required as Needed* | 27 | \$147.00 | \$3,969.00 |
| FSO-IL-DIST-1 | LABOR TO INSTALL AND DATA CONVERSION | 27 | \$300.00 | \$8,100.00 |
| FSO-IL-DIST-1 | RR INTERCONNECT | 4 | \$500.00 | \$2,000.00 |

Total: **\$124,094.00**

Notes:

Extensive time requirements mandate an additional charge at railroad interconnect locations

Terms:

Shipment of the material will be approximately 90 days after receipt of both an acceptable purchase order and approved submittal data if required. Quoted prices are based on the entire value and volume of the quote. Payment terms are Net 30 days with prior approved credit. Brown Traffic Products, Inc. retains title to material until paid in full. A service charge of 1.5% per month (18% annual rate) will be assessed against all past due accounts. Prices and delivery quoted are firm for 30 days from the date of bid. The above quote does not include installation of the products quoted. On-Site technical assistance is available and will be quoted upon request.

Quotation does not include sales tax. Sales tax will be added at time of invoice unless a valid Sales Tax Exempt certificate has been provided. Sales tax exempt certificate should accompany customer Purchase Order.

Limited Warranty: Brown Traffic Products only obligations shall be to replace such quantity of the product proven to be defective.

Warranty Period: The length of warranty manufacturers have conveyed to the seller and which can be passed on to the buyer.

Additional terms and conditions apply - See Brown Traffic Products Terms & Conditions document.

Thank you for the opportunity to provide this quote.

Phase 2 Eagle Controllers

LAKE City

| Intersection | Model | Memory (Large/small) | Notes |
|---|-----------|----------------------|-----------------|
| Deerpath Drive @ Phillip Road | Eagle M40 | Small | Vernon Hills |
| Fairway Drive @ Lakeview Parkway | Eagle M42 | Large | Vernon Hills |
| IL 131 (Green Bay Rd) @ 10th St | Eagle M40 | Small | |
| IL 131 (Green Bay Rd) @ 14th St/Pulaski Memorial Dr | Eagle M40 | Small | |
| IL 131 (Green Bay Rd) @ Brookside Av | Eagle M40 | Small | |
| IL 131 (Green Bay Rd) @ IL 120 (Belvidere St) | Eagle M40 | Small | |
| IL 131 (Green Bay Rd) @ IL 132 (Grand Av) | Eagle M40 | Small | |
| IL 131 (Green Bay Rd) @ Washington St | Eagle M40 | Small | |
| IL 131 (Green Bay Rd.) @ Crescent Av | Eagle M40 | Small | |
| IL 132 (Grand Ave) @ 1st St | Eagle M40 | Small | |
| IL 132 (Grand Ave) @ Dilleys Rd | Eagle M40 | Large | |
| IL 132 (Grand Ave) @ IL 21 / Milwaukee Ave | Eagle M40 | Small | |
| IL 132 (Grand Ave) @ O' Plaine | Eagle M40 | Small | |
| IL 132 (Grand Ave) @ Six Flags | Eagle M40 | Small | |
| IL 60 @ Academy | Eagle M42 | Large | |
| IL 60 @ Bradley Rd/Riverwood Rd | Eagle M41 | Large | |
| IL 60 @ Conway Farms / Field Ct | Eagle M40 | Small | |
| IL 60 @ I 94 East Ramp | Eagle M40 | Small | |
| IL 60 @ I 94 West Ramp | Eagle M41 | Large | |
| IL 60 @ Oak Creek Plaza Dr/Madline Dr | Eagle M40 | Small | |
| IL 60 @ Saunders Rd | Eagle M40 | Small | |
| IL 60 @ St Mary's Rd | Eagle M40 | Large | |
| IL 60 @ WW Grainger W Ent | Eagle M40 | Large | |
| IL 60/IL 83 @ Diamond Lake Rd | Eagle M40 | Small | |
| IL 60/Willow Springs Rd @ IL 83 | Eagle M40 | Small | |
| IL 83 @ Brighton Ln. | Eagle M42 | Large | |
| IL 83 @ Lake St | Eagle M42 | Large | |
| IL 83 @ Shorewood Rd. | Eagle M41 | Large | |
| Lakeview Parkway @ Hawthorne Village Commons | Eagle M40 | Small | Vernon Hills |
| Lakeview Parkway @ Phillip Road | Eagle M40 | Large | Vernon Hills |
| US 45 (Lake) @ Courtland St | Eagle M40 | Small | |
| US 45 (Lake) @ Division St | Eagle M40 | Small | |
| US 45 (Lake) @ Dunbar Rd | Eagle M42 | Large | RR interconnect |
| US 45 (Lake) @ Hawley St | Eagle M40 | Small | |
| US 45 (Lake) @ IL 176 (Maple) | Eagle M42 | Large | RR interconnect |
| US 45 (Lake) @ Motorola Pkwy | Eagle M41 | Large | |
| US 45 (Lake) @ Peterson Rd | Eagle M41 | Large | |
| US 45 (Lake) @ Winchester Rd | Eagle M42 | Large | RR interconnect |
| US 45 @ Buffalo Grove Rd. | Eagle M42 | Large | |
| US 45 @ Butterfield Rd | Eagle M42 | Large | |
| US 45 @ Deerpath | Eagle M40 | Small | RR interconnect |
| US 45 @ Evergreen | Eagle M40 | Large | |
| US 45 @ IL 60 | Eagle M42 | Large | |
| US 45 @ IL 83 | Eagle M40 | Small | |
| US 45 @ Jewel/Venture/Townline Sq SC | Eagle M40 | Small | |
| US 45 @ Oakwood | Eagle M40 | Small | |
| US 45 @ Ranney Rd/Community Parking Lot Ent | Eagle M40 | Small | |
| US 45-IL 21 (Milwaukee) @ Busch Rd | Eagle M41 | Large | |
| US 45-IL 21 (Milwaukee) @ Deerfield Rd | Eagle M41 | Large | |
| US 45-IL 21 (Milwaukee) @ Inverrary Ln | Eagle M41 | Large | |
| US 45-IL 21 (Milwaukee) @ Lk-Ck N Ramp A-D | Eagle M42 | Large | |
| US 45-IL 21 (Milwaukee) @ Lk-Ck S Ramp B-C | Eagle M41 | Large | |
| US 45-IL 21 (Milwaukee) @ Wolf Rd | Eagle M41 | Large | |
| US 45-IL 21 @ Riverwalk Dr/Columbus Pkwy | Eagle M41 | Large | |

Small Memory (replace)

27

Large Memory (Upgrade)

27



Division of Transportation

Martin G. Buehler, P.E.
Director of Transportation/County Engineer

600 West Winchester Road
Libertyville, Illinois 60048 -1381
Phone 847 362 3950
Fax 847 362 5290

DATE: October 22, 2007

TO: Mr. Gary Reis
Purchasing Agent
Finance & Administrative Services
Purchasing Division

FROM: Martin G. Buehler
County Engineer / Director of Transportation

SUBJECT: Sole Source Request
Traffic Signal Controller Upgrades

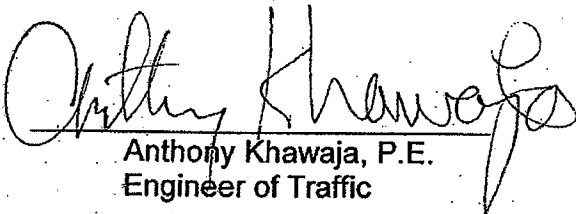
The Lake County Division of Transportation recommends the sole source negotiation and purchase of services to upgrade approximately 224 traffic signal controllers and integrating these controllers into the Lake County PASSAGE Intelligent Transportation System.

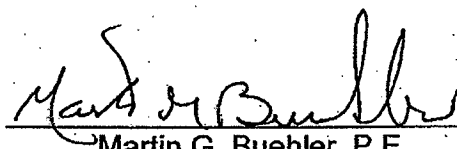
The original equipment manufacturers (Econolite / Eagle) and their designated equipment distributors (Traffic Control Corporation / Brown Traffic) are the only parties authorized by the manufacturers to perform the firmware upgrades that are necessary for this project. It is a sensible strategy on the part of Lake County therefore to segregate this specialized equipment upgrade work from the larger PASSAGE Phase II construction bid. The general contractor for the larger project would only function as an intermediary attaching a profit margin to this work while adding little value. It makes sense for Lake County to work directly with the sole source distributors and negotiate a fair price and award the contract directly to Traffic Control Corporation / Brown Traffic.

Traffic Control Corporation
780 West Belden Ave., Suite D
Addison, IL 60101

Brown Traffic
31632 North Ellis Drive #305
Volo, IL 60073

Please consider placing this issue on the next Sole Source Committee meeting agenda for consideration.


Anthony Khawaja, P.E.
Engineer of Traffic


Martin G. Buehler, P.E.
County Engineer / Director of Transportation



MERGING INNOVATION, TECHNOLOGY & SERVICE

31632 North Ellis Drive #305
Volo, Illinois 60073
p. (847) 546-1616
f. (847) 546-8314
www.browntraffic.com

"an affirmative action,
equal opportunity employer"

October 23, 2007

Lake County Division of Transportation
600 W. Winchester Road
Libertyville, IL 60048

Attn: Anthony Khawaja

Anthony,

Brown Traffic Products, Inc. is the exclusive distributor for all Siemens/ Eagle traffic products sold in the state of Illinois. We are a full service company selling both hardware and software. We also provide on street technical support. Our company was founded in 1969 and we are the largest Siemens/ Eagle distributor in the United States.

Please contact us at our office or visit our website at www.browntraffic.com.

Thank you,

A handwritten signature in dark ink, appearing to read "G Meyer", with a stylized flourish extending from the end.

Gary Meyer
Chicagoland General Manager
Fax: 847-546-8314
gmever@browntraffic.com



TRAFFIC CONTROL CORPORATION

780 WEST BELDEN AVENUE
SUITE D
ADDISON, IL 60101

October 23, 2007

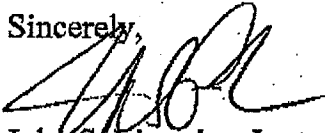
Mr. Anthony Khawaja
Traffic Engineer
Lake County Division of Transportation
600 West Winchester Road
Libertyville, IL 60048-1381

Re: Econolite Control Products, Inc.

Dear Mr. Khawaja,

Traffic Control Corporation is the exclusive distributor/authorized supplier for Econolite Control Products, Inc. Traffic Control's territory for Econolite products includes the following states: North and South Dakota, Minnesota, Wisconsin, Illinois, Iowa, Missouri, Indiana, and Michigan.

Sincerely,

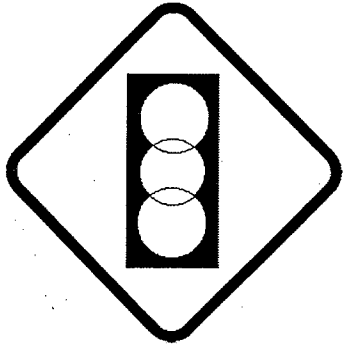


John S. Lizzadro, Jr
President

Voice: 630.543.1300

Website: www.trafficcontrolcorp.com

Fax: 630.543.5050



TRAFFIC CONTROL CORPORATION

780 West Belden Ave. Suite D
Addison, IL 60101
(630)543-1300
FAX (630)543-5050

Lake County PASSAGE Phase 2

August 6, 2008

Project Scope:

Traffic Control Corporation (TCC) proposes to provide labor and equipment to upgrade selected traffic signal intersections located in Lake County to current NTCIP 1202 1B standards. The traffic signal controllers shall be capable of operating in the Econolite *icons*® Advanced Traffic Management System.

PAY ITEM DESCRIPTIONS

1. **FIRMWARE UPGRADE -ECONOLITE** includes: ASC/2 CONTROLLER

- Remove and replace EEPROMs with current version NTCIP firmware
- NTCIP software license
- Convert current data base to the new NTCIP version
- Furnish and install , as needed, fiber optic modems, cabling, and interface components

or

ASC/2S CONTROLLER

- Download current version NTCIP software
- NTCIP software license
- Convert data base to the new NTCIP version
- Furnish and install , as needed, fiber optic modems, cabling, and interface components

2. **REMOVE AND REPLACE CONTROLLER - ECONOLITE** includes:

- ASC/3-1000 (TS2 Type1) or ASC/3-2100 (TS2 Type 2)
- Ethernet ready
- Current NTCIP firmware
- Furnish and install , as needed, fiber optic modems, cabling, and interface components

3. FIRMWARE UPGRADE – EAGLE includes:

- Remove and replace EEPROMs with current version firmware
- NTCIP software license
- For Model EPAC 3808 M40, M41 or M42 with existing fiber optic interface

4. REMOVE AND REPLACE CONTROLLER – EAGLE includes:

- Model M41 or M42 or M52 (EPAC 3868M52) 3808 (TS2 with fiber optic interface
- Current NTCIP software
- Furnish and install, as needed, cabling and interface components

NOTE: Intersection will be in flash mode during these procedures. Assistance going into and out of flashing operation may be required from the agency or maintenance contractor. TCC is not responsible for traffic control.

5. FIBER OPTIC MODEM includes:

- Furnish and install, as needed, fiber-optic modem for intersection controller interconnect

6. TERMINAL SERVER:

- Provides communication from interconnected traffic signal controllers to customer supplied Ethernet switch
- Installed at or in traffic signal cabinet next to the communications cabinet containing the Layer 3 Ethernet switch
- Four channel unit
- Furnish and install
- Includes incidental cabling (CAT5, serial), power supplies, interface and mounting hardware

7. VIDEO DETECTION COMMUNICATIONS includes:

- Furnish and install Econolite ACIP 4E Autoscope Interface panel

8. COMPUTER EQUIPMENT AND LICENSES includes:

1. Server Computer and Auxiliary Equipment
2. Software ,Licenses, Integration, Testing, and Training

*****See Attachment A (as provided by Econolite Control Products)**

| ITEM | DESCRIPTION | QUANTITY | UNIT PRICE | TOTAL PRICE |
|------|---|-------------|--------------|---------------------|
| 1 | FIRMWARE UPGRADE - ECONOLITE | 141 | \$625.00 | \$88,125.00 |
| 2 | REMOVE AND REPLACE CONTROLLER - ECONOLITE | 9 | \$2,895.00 | \$26,055.00 |
| 3 | FIRMWARE UPGRADE - EAGLE | 26 | \$600.00 | \$15,600.00 |
| 4 | REMOVE AND REPLACE CONTROLLER - EAGLE | 29 | \$4,000.00 | \$116,000.00 |
| 5 | FIBER OPTIC MODEM | 300 | \$275.00 | \$82,500.00 |
| 6 | TERMINAL SERVER | 22 | \$2,450.00 | \$53,900.00 |
| 7 | VIDEO DETECTION COMMUNICATIONS | 25 | \$1,895.00 | \$47,375.00 |
| 8 | COMPUTER EQUIPMENT AND LICENSES | LUMP SUM | | \$87,185.00 |
| | | | TOTAL | \$516,740.00 |
| *** | SYSTEM UPGRADE OPTIONS | IF REQUIRED | | |
| | INTERSECTION GRAPHICS | EACH | \$600.00 | |
| | BASE MAP MODIFICATION | LUMP SUM | \$5,500.00 | |
| | TRAVEL EXPENSES | PER WEEK | \$7,500.00 | |

Terms and Conditions

- ☐ Payment terms for items above are as follows:
- ☐ **icons** System Upgrade and integration
- ☐ 70% due upon shipment of the system material and software
- ☐ 10% due upon completion of system installation and test
- ☐ 20% due upon completion of acceptance test
- ☐ System components (Computer Equipment, Field Equipment and Communications Equipment)
- ☐ 100%, net 60 days after receipt of invoice
- ☐ All shipments are FOB Anaheim, CA.
- ☐ Prepaid Shipping - included

Traffic Control Corporation

Lake County DOT

By:

By: _____

Title: President

Title: _____

Attachment A

Computer Equipment and Licenses

1. Project Scope and Understanding

Traffic Control Corporation is pleased to provide this estimate for the Lake County, Illinois **icons** upgrade. Econolite Control Products will provide the following equipment, software and services in the deployment of a Traffic Signal Management System upgrade, hereinafter referred to **icons**® Advanced Traffic Management System (ATMS). The following section is the scope of the project, as we (TCC and Econolite) understand

General Project Scope

The following estimate details the software, equipment and services required for the deployment of an **icons**® ATMS upgrade, licensed for up to 750 intersections. Econolite Control Products, Inc. requires that Econolite personnel install the **icons** software on Econolite-provided computers, supplied according to their specifications. Econolite will also provide integration services, as described later in this estimate. According to information provided, the following is a synopsis of the current system components and communications infrastructure.

System Implementation

Proposed System Implementation

For this project, we (Econolite) propose to upgrade the County's system. The process will be to provide a new (additional) **icons** communications server including all licenses, integration, installation, and training.

This will allow the County to integrate the additional intersections onto the new system. This proposal provides pricing for all the computer equipment required for system operation.

Communications Scope

Econolite is celebrating its 75th year of providing advanced transportation management system. As system functionality and technology advances, we have been able to embrace these advancements to provide more efficient and cost-effective systems. Many of the complexities and difficulties with system deployment focus on communications infrastructure, communications medium and communication hardware devices. We have determined that many of these devices/technologies may or may not be compatible with our systems and control hardware and may or may not be able to provide the correct capabilities to support our systems communications needs. Econolite engineers have spent hundreds of hours qualifying specific communications devices that will seamlessly integrate with our systems and control equipment.

For this project, Econolite proposes to utilize all existing communications equipment, and will utilize existing infrastructure. Any additional communications equipment required to implement this upgrade will be the responsibility of the County to provide. However, we highly recommend that any equipment provided on this project be submitted to Econolite for approval.

Network transport is the sole responsibility of the Network Provider, namely the timely delivery of adequate and sustained bandwidth and data integrity. We recommend that

delay of data be kept to a bare minimum through the use of high quality networking equipment which will inject a minimum of latency. The network design used for the controller communications needs to make sure that the round-trip packet latency does not exceed 50 milliseconds under all network loading conditions.

This communications system scope is based on information given to Econolite during the process of preparing this estimate.

2. Project Equipment Requirements

Description of electrical and hardware requirements for the project
Servers, Computers and Auxiliary Equipment

In order to meet the requirements of this project, the **icons** upgrade requires two (2) communications servers (1 existing / 1 new). Econolite will provide the required hardware and software, referenced in the Central Computer Equipment List, below. The system hardware will be configured, software installed and the system tested in our Colorado Springs, Colorado, research and development facility. If needed, an Econolite systems engineer will assist the customer's MIS/IT personnel in integrating the new system LAN (workstations and servers only) within the Customer's LAN. All virtual private network connections and wide-area network connections to the new **icons** network are the domain and responsibility of the Customer's MIS/IT personnel. Econolite engineers can provide network configuration diagnostics or design assistance, if required, to integrate the new **icons** network to the Customer's existing network; the rate is US\$225.00 per hour.

Central Computer Equipment List (**HP Server may be substituted)

| |
|---|
| Communications Server PowerEdge 1950, Dual Core Intel® Xeon® 5160, 4MB Cache, |
| 3.00GHz, 1333MHz FSB |
| 1 Windows Server® 2003 R2, Standard Edition, Includes 5 CALs |
| Single Processor only |
| 2GB 533MHz (4x512MB), Single Ranked DIMMs |
| Broadcom TCP/IP Offload Engine Not Enabled |
| Riser with 2 PCIe Slots |
| 36GB, SAS, 3.5-inch, 15K RPM Hard Drive |
| PERC 5/i, Integrated Controller Card |
| No Mouse Option |
| Dual Embedded Broadcom® NetXtreme II 5708 Gigabit |
| Ethernet NIC |
| Dell Remote Access Card, 5th Generation for PowerEdge |
| Remote Management |
| 24X IDE CD-RW/DVD ROM Drive for PowerEdge Servers, All |
| OS |
| Rack Bezel |
| 1x2 Backplane for 3.5-inch Hard Drives |
| Electronic Documentation and OpenManage CD Kit |
| 36GB, SAS, 3.5-inch, 15K RPM Hard Drive |
| Integrated SAS/SATA RAID 1, PERC 5/i Integrated |
| Rack Chassis w/Sliding Rapid/Versa Rails and Cable |
| Management Arm, Universal |
| 3Yr SILVER ENTERPRISE SUPPORT: 7x24 HW/SW, NBD |
| Onsite |
| Redundant Power Supply with Y-Cord |
| KVM Switch Cable 2 |

NOTE: Hewlett Packard equipment may be supplied to integrate with existing components. The Dell Central Computer Equipment List below is for reference only. LCDOT may supply a list of preferred hardware and software to be supplied.

3. *icons* Installation and Integration

Overall *icons* System Integration Description

This upgrade includes software license fees a new communications server, which will add an additional 500 inter sections onto the existing *icons* system. All new software products have a one year warranty. The standard protocol for this system is NTCIP. Econolite Control Product's systems engineering team provides an extensive process for system installation, initialization, testing and acceptance. Upgrade shall be fully operational with Lake County Phase 1 contract.

Software Integration

Factory performance testing on the system is performed at the Econolite Colorado Springs, Colorado Facility.

An Econolite team of engineers will assemble the system hardware, install the software, test the system components (using standard system test documents). After completion of the Econolite standard system performance tests, the system will be disassembled, packed and shipped to the job site. A member of the Econolite system engineering team will arrive on site to unpack, reassemble and test the system. Upgrade shall be fully operational with phase 1 contract

All labor charges have been allocated in the pricing to conduct the integration and testing stated above. This proposal includes labor and expenses for installation and intersection integration.

Software Training

No immediate training is required with the addition of the new communications server. Supplemental icons training can be scheduled at any time. Pricing can be provided upon request.

4. Warranty and Support

Software Warranty

Econolite Control Products, Inc. (Econolite) warrants the *icons* software components licensed to the original purchasing agency (Purchaser) for a period of **one (1) year** from date of customer acceptance, if Econolite installs the software or supplies technical direction or installation by contract. The warranty period shall run from the completion of installation, provided same is not unreasonably delayed by the Purchaser. Econolite is responsible for warranting the software in accordance to published *icons* specifications. Econolite is not responsible for non-conformance caused by negligence, acts of God, or use of software in a manner not originally intended.

If the software delivered hereunder does not meet the above warranty, and if the Purchaser promptly notifies Econolite, Econolite shall thereupon correct any defect, including non-conformance with published **icons** specifications, either (at our option) by correcting defective software or modifying the software to meet specifications. Econolite reserves the right to schedule, at our discretion, when repairs or corrections will be addressed, if at all. The liability of Econolite under this warranty, for any loss or damage whether the claim is based on contract or negligence, shall not in any case exceed the cost of correcting defects in the equipment as herein provided and, upon the expiration of the warranty period, all such liability shall terminate. The foregoing shall constitute the exclusive remedy of the Purchaser and the exclusive liability of Econolite.

THE EXPRESS WARRANTY SET FORTH IS A LIMITED WARRANTY AND IS THE ONLY WARRANTY MADE BY ECONOLITE. ECONOLITE MAKES AND PURCHASER RECEIVES NO OTHER EXPRESS WARRANTY AND NO IMPLIED WARRANTIES. ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. THE STATED EXPRESS WARRANTY IS IN LIEU OF ALL LIABILITIES OR OBLIGATIONS OF ECONOLITE FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE SALE, DELIVERY, OPERATION OR USE OF THE GOODS.

The warranties set forth herein shall be void if the software has been (1) altered outside of Econolite's facilities, (2) subjected to misuse, negligence or operated in other than normal and proper use and service, or (3) installed or adjusted in a manner not in accordance with Econolite's instructions. This warranty does not extend to software not developed by Econolite. Econolite has the sole right to determine whether or not an item is covered under our warranty policy.

Service and Support

We (Econolite) will make every effort to provide quick and immediate service and support for any problems or issues that the Customer may encounter. This may involve troubleshooting by telephone, email or other communications methods (remote access), or may be handled by field visits by technicians if we are unable to resolve the problem remotely.

For any trouble reports that are received after normal business hours, we will respond with a telephone call and email confirmation from one of our technicians within one business day of receiving the message. If he/she is unable to resolve the issue, a visit will be scheduled. We cannot guarantee a time frame on the field response, but we will make every effort to respond to any issue as quickly as possible.

5. Price Summary

General Estimate Summary

The Basic **icons** system upgrade includes supplying the software and services required for the deployment of a new (additional) communications server. We will provide the **icons** software to be installed by Econolite engineers. We will also provide integration services as described in this estimate.

The Basic **icons** system upgrade will be supplied in one phase, which includes all training and integration required to set up, configure and begin operating the system.

Base Pricing includes:

- _ **icons** installation, integration and labor estimates
- _ Computer server (1 communications server)
- _ The computer hardware provided by Econolite will include licenses for:

o **icons** Advanced Traffic Management System (licensed for up to 500 additional intersections or a total of 750 intersections.)

Per Intersection Pricing includes:

- _ New Base Map integration
- _ New Intersection Graphic Generation
- _ Additional Intersection communications integration